

13KH37BIA Welding Wire for the Automatic
Welding of 30X15SA Steel, by Slutskaya.
UNCLASSIFIED

RUSSIAN, per, Automat Svarka, ^{7/82}Mar/Apr 1956,
pp 12-17.

NLL M.4175
Co-op Tr Scham:
Tr 730
(L1.15.0)

Sci - Eng
Apr 58

62,670

Static Strength of Spot-Welded Joints, by A. N.
Dorofeyev,

RUSSIAN, per, Auto Svyaz, Vol XX, No 2 (7), 1956,
pp 58-66.

Brutcher tr 3802
\$7.60

Eci - Eng
Jul 58

66, 284

Ultrasonic Flaw Detection in Butt Welds, by A. K.
Gurvich. UNCL

RUSSIAN, per, Avtom Svarka, Vol IV, No 2, 1956,
pp 68-75.

British Iron and Steel Ind
(no number given)

Sci - Phys
Sep 59

98,180

Thermal Expansion as a Basis for Control of Spot
Welding of Duralumin, by Yu. A. Pachentsev.

RUSSIAN, per, Avtomat Svarka, Vol IX, No 3, 1956.
pp 65-71.

Brutcher Tr 3973
\$5.40

Sci - Min/Met

Apr 58

61,444

Fluxes for Electroslag Welding, by V. V. Podgayetakiy,
82 pp.
RUSSIAN, per, Avtomat Svarka, No 4, 1956, pp 30-49.
JPRS 24769

Sci-Mat & Met
Jun 64

260,410

Welded Joints and Residual Stresses, by V. I.
Trufyakov. UNCL

RUSSIAN, per, Avtom Svarka, No 5, Oct 1956.

(Held in TIL -- no other info)

Feb 59

Carbon-Dioxide Shielded, Consumable-Metal Arc
Welding of Alloy Steels, by B. S. Kasatkin,
et al.

RUSSIAN, per, Avtomat Svarka, Vol IX, No 5,
1956, pp 19-21.

HB 4890

OTS 6-1-1956

Sci - Engr

Sep 60

127,041

Flat Colloid Thin-Walled Electrically Welded
Tubes, by G. W. Rayevskiy. UNCT

RUSSIAN, ENG, Atom Sverl, No 5, 1956;
pp 22-30.

DSIR LLU NIS 1282

~~(11.20.63.)~~

Sol - Engr

Feb 60

108,342

A method for the rapid analysis of flux
AI-348-1, by H. A. Langer, T. P. Novikova. UNCL

RUSSIAN, per, Avton-Svarka, No 5, 1956, p 20-23.

British Iron and
Steel Ind 1284
(12)

N22 M. 4/5 74

Sci - Phys
May 59

86,776

Ultrasonic Inspection of Fillet Welds,
by A. K. Gurvich.

RUSSIAN, per, Avtomat Svarka, Vol 8 ~~VII~~, IX.
No 5, 1956, pp 84-89.

HB 4489

Sci - Engf

Jan 62

178, 311

Frumin, I. I.
PREVENTION OF PORES DURING SUBMERGED ARC
WELDING AND WELD SURFACING (Preduprezhdeniye
per pti Svarke i Naplavke pod Plyusom). Apr 61 (49)p.
67 refs. RTS 1779.
Order from OTS or SLA \$4.60

61-19691

Trans. of Avtomaticheskaya Svarka (USSR) 1956 (v. 9)
no. 6, p. 1-30.

DESCRIPTORS: *Arc welding, *Arc welds, *Hydrogen,
*Porosity.

The paper examines experimental data on the formation
of pores, and the most important technological and
metallurgical factors. It shows the part played by hy-
drogen as the main cause of porosity, as well as the
part played by nitrogen, carbon monoxide and water
vapour. A theoretical analysis is given of the processes
in the gas phase, the weld pool and in the slag which
lead to the appearance of pores; methods of preventing
(Machinery--Manufacturing, TT, v. 6, no. 1) (over)

61-19691

- I. Frumin, I. I.
- II. RTS-1779
- III. Department of Scientific
and Industrial Research
(Gt. Brit.)

161813

Office of Technical Services

Effect of Composition of Iron-Chromium-Carbon
Alloys on Weld Hot Cracking Susceptibility, by
I. K. Pokhodya.

RUSSIAN, per, Avtomat Svarka, Vol IX, No 6, 1956,
pp 55-63.

Butcher Tr 4168
\$7.35

Sci - Engr

Aug 58

68,204

Segregation in Fusion Zone and in Solidification Layers
as Related to the Diffusion Between Solid and Liquid
Phases in the Freezing of Welds, by A. H. Makara, A. A.
Rozgoshinskiy.

RUSSIAN, bimot per, Avtomaticheskaya Svarka, Vol IX, No 6
(51), Kiev, 1956, pp 65-76.

Brutcher Tr 3991
\$9.80

57,025

Sci - Min/Met

Jan 58

On Localized Heat Treatment of Welded Joints,
by B. S. Kosartkin, A. A. Rossoshinskiy. UNCLASSIFIED

RUSSIAN, per, Avtomaticheskaya Svarka, Vol X, No 1,
Jan-Feb 1957, pp 31-36.

NAVY 2550/2551/600

113 7/10
113 7/12

Sci. - Eng.
Jun 60

The Spectral Analysis of Fused Welding Fluxes,
by B. S. Kadalya. UNCLASSIFIED

RUSSIAN, per, Avtom Svarka, No 1, 1957,
pp 73-76.

ALL M-4080
British Iron and Steel Ind 1033

Sci- Phys
Jan 59

78,435

Mechanism of the Formation of Crystalline Cracks
During Welding and Hard Facing, by I. I. Frumin,
24 pp.

RUSSIAN, per, Avtomat Svarka, No 1 (52), 1957,
pp 88-102. 9660807

ATIC MCL-467
ATS-22L36R

Sci - Engr

May 61

150, 192

The Mechanism of Formation of Crystallization Cracks
During Welding and Deposition of Beads, by I. I.
Frumin, 14 pp.

RUSSIAN, *Isr, Avtomat Svarka*, Vol X, No 1(52),
1957, pp 88-102.

ATS-22L36R

Sci

Jun 60

ALL AT 12 MCL 475
CIA 960000
118,305

Effect of Columbium on the Structure of Welds in
Austenitic 18-8 Steel, by G. G. Medvedev, N. Yu.
Pal'shuk.

RUSSIAN, per, Avtomat Svarka, Vol. 11, No 2, 1957,
pp 1-10.

Henry Bratcher 4412
\$9.85

Sci - Engr

HH Jan 59

79,589

All-Austenite Welds Not Susceptible to Hot
Cracking, by B. I. Medovar, Yu. V. Lstach.

RUSSIAN, Eng, Avtomat. Svarke, Vol X, No 2,
1957, pp 32-45.

HB 4464

Sci - Engr

Dec 59

British Welding Research Association
Abington Hall
Abington, Cambridge
BWRA/Tr 5/59

104,351

10 892

GE-1

B. I. MEDOVAR, N. A. LANGER, Yu. V. LATASH

Intercrystalline corrosion in sulphuric acid of fully austenitic
steels and welds caused by deformation under pressure

Interkristalline Korrosion in Schwefelsäure von vollausteni-
tischen Stählen und Schweissungen bedingt durch Druckver-
formung

Avtomaticeskaya Svarka, 10, No. 1, 46-50 (1957)

German

E u r a t o m

Ultrasonic Fault Detection in Electrosag Welding
Joints, by N. B. Khimtchenko, V. P. Esileoskiy,
V. A. Tsechal.

RUSSIAN to GERMAN, per, Avtom Svarka, No 2, 1957,
pp 70-78.

ID-U 687

Institut fuer Dokumentation-
Übersetzungsnachweis
Berlin, W 8
Unter den Linden 8

Dec 59

The Multiple-Pass Welding of Thick Metal in a
Protective Medium of Carbon-Dioxide Gas,
by D. A. Dudko, et al. USTU.

RUSSIAN, per, Avton Svarka, No 3, 1957,
pp 58-63.

DSIR LLV RES K210

(10s. Od.)

Set - Eng
Nov 59

100,757

Some Problems in the Electroslag Welding of
Titanium, by S. M. Gurevich, V. P. Didkovskiy.

RUSSIAN, per, Avtomat Svarka, No 3 (54), 1957,
pp 89-91.

ATS RJ-2070

OTS 62-20-15

Sci - Chem
Dec 59

104,071

New Welding Generator Circuits and Their Use
for Welding in Shielding Gases, by G. M.
Kiselevich, R. I. Slepukhin. UZEL 16pp.

RUSSIAN, ~~Engl~~, Avtom Svarka, No 3, 1957,
pp 97-106.

~~RUSSIAN, Engl~~
OTS 77-63-36780

SLA 60-13432
DSIR LAM ~~English~~ RTS 1211

(LL Os. (B.))

Sci - Eng
Nov 59

100,758

Siunov, N.S. and Urmanov, R.N.
ANALISIS DE LOS ESQUEMAS DE SOLDADURA
POR ARCO TRIFASICO USANDO BOBINAS DE RE-
GULACION MONOFASICAS (Analiz Skhem Svarki
Trehfaznoi Dugoi s Ispol'zovaniem Odnofaznykh
Reguliruemykh Drossel'ei) (Analysis of Triphasic
Arc Welding Patterns with Monophasic Control Elec-
tric Coils). 29p. 9 refs. CID:63-333.
Order from OTS, ETC or CID \$2.60 TT-63-26733

Trans. in Spanish of Avtomaticheskaya Svarka
(USSR) 1957, v.10, no.4, p.1-14.

DESCRIPTORS: Analysis, Wiring diagrams, *Arc
welding, *Control systems, Coils,

(Metallurgy, TT, v. 11, no. 11)

TT-63-26733

- I. Siunov, N.S.
- II. Urmanov, R.N.
- III. CID 63-333
- IV. Centro de Información
y Documentación,
Madrid

Office of Technical Services
European Translations Centre

Spectral Analysis of Certain Titanium Alloys and Their
Weld Joints, by V. V. Bogdanova, Ye. S. Kudelya, 9 pp.

RUSSIAN, per, Avtomaticheskaya Svarka, No 4, (55),
1957, pp 29-32. *CIA 61375*

ATIC P-TS-9412/III

Sci - Minerals/Metals
Jun 58

65, 627

Some Problems of Crystallization Cracking in
Electroslag Welding, by S. A. Ostrovskaya.

RUSSIAN, per, Avtomat Svarka, No 4, 1957,
pp 33-47.

REF 4859

123,072

Sci. - Eng.

Aug 60

Method of Obtaining a Collodion Replica of
a Known Region of a Specimen for Electron
Microscope Examination, by Yu. B. Malevskiy,
G. F. Darovskiy.

RUSSIAN, par. Avtomat. Svarka, No 4,
1957, pp 48-51.

CSIRO

Sci - Electron
Mar 62

189,285

The Use of Aluminum Welded Structures, by D. W.
Fabkin, 4 pp.

RUSSIAN, per, Avtomat Svarka, No 4, Kiev, 1957,
pp 107-112.

US JPRS/DC-L-1150

USSR
Sci - Minerals/Metals
Dec 58

77,427

Certain Characteristics of Welding Titanium
Under Flux, by S. M. Gurevich, 17 pp.

RUSSIAN, per, Avtomat Svarka, No 5, 1957,
pp 38-48. 9668578

FTD-TT-63-22

Sci-Materials & Metallurgy
May 63

230,888

Über die Teilnahme des Zusatz- und Grundwerkstoffes an
den Metallurgischen Reaktionen bei im Elektro-
Schlacke-Schweissovorgang, by D. A. Dudko, In. N.
Rublevskiy. (unpubl tr)

RUSSIAN to GERMAN, per, Avtom Svarka, No 5, 1957,
pp 56-60.

IDU 682
Institut fuer Dokumentation
Übersetzungsnachweis
Berlin, W. G
Unter den Linden 8

Apr 60

Automatic Fusing on With Band Electrodes, by F. A. Khomusko.

RUSSIAN to GERMAN, per, Avtom Svarka, No 5, 1957, pp 76-85.

ID-U 688

Institut fuer Dokumentation-
Übersetzungsnachweis
Berlin, W 8
Unter den Linden, 8

Dec 59

Mechanisms for the Diffusion of Cu in Fe and Steel,
by I. I. Szhevaga.

RUSSIAN, per, Avtom Svarka Sborn, No 6, 1957,
pp 87-90.

*CFSTI TT 70-59116

Sci-
June 70

Secondary Carbides and the Formation of the
Phase in Weld Seams of Stable Austenitic
Steel Type 25-20, by Yu. B. Malevskiy, B. I.
Medover, 10 pp.

RUSSELM, per, Avtomat Svarka, Vol X, No 5,
1957, pp 86-94.

ABO Tr-4203

Sci - Min/let
20 Oct 60

129,745

Dynamic Characteristics of the Power Source
in Automatic Inert-Gas-Shielded Welding, by
V. M. E Shchitova, I. Ya. Rabinovich.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 1,
1958, pp 44-47.

HB 6034

Sci-M/M

Nov 68

243,429

Grain Structure (Granular and Subgranular) and Its
Influence on the Impact Strength of Welds, by
D. S. Kasabkin, N. I. Karata, D. F. Dorovskiy. USGL

RUSSIAN, *tr.*, *Artemst Svarka*, No 2, 1958, pp 20-29.

DSIR LLU H.590

(loan)

*also
FWR A / 12/59
Central Welding Res Assoc
abington Hall
abington, Cambridge, 987*

Sci - Min/122
Oct 59

Electron Microscope Examination of Welds in
Titanium, by V. F. Grabin, S. M. Gurevich. USSR.

RUSSIAN, per, Avionat Svarke, No 2, 1998, pp 37-41.

DSIR LIT M-592

(loan)

Sci - Electronics; Eng
Oct 59

98,986

T of C

RUSSIAN, per, Avtomaticheskaya Svar'ka, No 3, Mar 1958.

AMS Lib 'Tr

Sci - Engineering
Sep 58

CO₂ Welding of 20 KhMF Heat Resistant Steel, by B. S. Kasatkin, Yu. N. Vakhnin.

RUSSIAN to GERMAN, per, Avtom Svarka, No 3, 1958,
pp 3-11.

ID-U 707

Institut fuer Dokumentation-
Übersetzungsnachweis
Berlin, W 8
Unter den Linden 8

Dec 59

Tensile Strength of Welded Joints in Hst 3 Steel
(Containing Up to 0.15% of Al., by A. K. Agnis.
UNCL.

RUBENIAN, per, Automat Svarke, No 3, 1958,
SF 24-3.

GB/326/TR 4/59

DSIR LLU M.593

(loan)

BWRA Tr 4/59

Sci - M.L.U/Mat
Oct 59

98,992
British Welding Res Assoc
Abington Hall
Abington, Cambridge

Influence of Low Temperatures on the Impact
Tensile Strengths of Welded Joints, by Yu. P.
Savayev. UNCL

RUSSIAN, per, Avton Svarka, No 3, 1958,
pp 57-61.

EWRA/Tr 7/59
British Welding Research Association
Abington Hall
Abington, Cambridge

Feb 60

106, 710

Influence of the Type and Polarity of the Current
on Metallurgical Processes During Electro-slag
Welding, by D. A. Dudko, I. N. Ruklevskiy.
RUSSIAN, per, Avtomaticheskaya Svarka, No 3,
1958, pp 69-78.
BISI 3780

Sci - M/M
Aug 64

265,439

Automatic Welding, 2 pp.

RUSSIAN, per, Avtomat Svarka, No 4, Kiev, 1958,
publ by the Publishing House of the Academy of Science
Ukrainian SSR.

Engr Res Devel Lab

Sci - Engr

Dec 58

11 220

GE-1

KAKHOVSKI N. I.

CO₂-welding of 2 Ch 13 high chromium steel

CO₂-Schweissung hochchromhaltigen Stahles der Marke

2 Ch 13

* Avtom. Svarka, 11, No. 4, 44-54 (1958)

German

E u r a t o m

On Drop Transfer of Electrode Metal During
Electroslag Welding, by D. A. Dudko,
I. N. Rublevskiy, 13 pp.
RUSSIAN, per, Avtomat Svarka, No 4,
Apr 1958, pp 24-31.
JPRS 24940

Sci - M/M
Jun 64

6
261,090

Determination of the Composition of Steel
and Metal by Electric Spark Sampling, by
B. G. Dudolys. UNCL.

RUSSIAN, per, Avtom Svarka, No 4, 1958,
pp 67-71.

OTS 62-2014/
BWRA Tr 6/59

British Welding Research Association
Abington Hall
Abington, Cambridge

Sci - Min/Met
Jan 60

106,749

62-20144

I. Lonskii, E. D.

Lonskii, E. D.
THE POSSIBILITY OF ATTAINING EQUILIBRIUM IN
THE SLAG-METAL SYSTEM DURING ELECTRIC ARC
WELDING. [1962] [18p. 8 refs.
Order from OTS or SLA \$1.60

62-20144

Trans. of Avtomaticheskaya Svarka (USSR) 1958, v. 11,
no. 4, p. 72-83.

DESCRIPTORS: *Arc welding, *Electric welding, *Slags,
Metals, *Chemical equilibrium

The object of the present investigation was to determine
whether the conditions observed in general metallurgi-
cal practice also apply in the case of welding. The in-
vestigation was carried out in three directions. The
composition of the metal and slag formed by the fusion
of electrodes with core wires of different grades of
steel, of electrodes with different amounts of ferroman-
ganese in the coatings and of electrodes with two-
(Metallurgy, TI, v. 9, no. 11)

(over)

Office of Technical Services

Automatic Welding of Large Diameter Pipes, by N. I. Voronov.

RUSSIAN to GERMAN, per, Avtom Svarka, No 4, 1958, pp 89-91.

ID-U 727

Institut fuer Dokumentation-
Übersetzungsnachweis
Berlin, W 8
Unter den Linden 8

Dec 59

Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat Svarka, No 5, Kiev, 1958,
publ by the Publishing House of the Academy of
Sciences of the Ukrainian SSR.

Engr Res Devel Lab
T-331

Sci Engr

Dec 58

The Thermal Theory of the Electric Arc, by G.
Leskov, G. I. Pogodin-Alekseyev.

RUSSIAN, per, Avtomat Svarke, Vol XL, No 5,
1958, pp 72-82.

DSIR ILU RTS 1589

Oct 1 1960

Oct 60

130,733

TABLE of Contents: Automatic Welding.

RUSSIAN, per, ~~Avtomatizirovannaya~~ Svarka, No 6, 1958,
publ by the Publishing House of the Academy of
Sciences of the Ukrainian SSR, Kiev.

Engr Res Devel Lab
T-332

Sci - Engr

Dec 58

Practical Application of Modern Achievements
in Welding Metallurgy, by I. Chabelka. UDCI

RUSSIAN, per, Avton Svarka, Jun 1958, pp 3-12.

British Iron and
Steel Ind 520000 1204
(L5 5n.00.)

NLL 107 4570

Sci - Engr
May 59

86,837

Rupture Strength of Austenitic Welds Made
Under a Flux (Submerged Arc), Under Argon and
Carbide Dioxide, by B. I. Medovar, A. N. Safon-
nikov, R. O. Lents.

RUSSIAN, per, Avtomat Svarka, Vol. XI, No 6,
1958, pp 13-31.

HB 4804

Sci - Eng

May 60

116,534

Zaruba, I. I. and Potap'evskii, A. G.
SPECIAL FEATURES OF CO₂ ARC WELDING WITH
A THIN ELECTRODE WIRE [Osnobennosti Protsessa
Svarki Tonkoi Elektrodnoi Provolokoi v Srede Uglekis-
logo Gaza]. Jun 60.
Order from MT MT Trans-21

Trans. of Avtomaticheskaya Svarka (USSR) 1958 [v. 11]
no. 6, p. 32-41.

DESCRIPTORS: Arc welding, Carbon dioxide, Elec-
trodes, Wire.

(Machinery--Manufacturing, TT, v. 6, no. 6)

61-22748

I. Zaruba, I. I.
II. Potap'evskii, A. G.
III. MT Trans-21
IV. Tollemache, M. de O.
(Gt. Brit.)

176639

Office of Technical Services

Changes in Slag Composition During a Process of
Electro-Slag Welding, by M. D. A. Dudko,
I. N. Rublevsky.
RUSSIAN, per, Avtomaticheskaya Svarka, No 6,
1958, pp 51-55.
BISI 3779

Sci - Electron
Aug 64

255,438

Some Features in the Electroslag Melting of Large
Diameter Consumable Electrodes, by Yu. V. Latash,
Ye. O. Paton, 10 pp.
RUSSIAN, per, Avtomat Svarka, No. 6, 1958, pp 76-83.
JPRS 24369

08151 3659

Sci - Elect
May 64

257,090

Effect of Columbium on the Structure of Welds
in Austenitic 18-8 Steels, by H. P. Lashko.

RUSSIAN, par, Avtomat Svarka, Vol. XI, No 6,
1958, pp 84-87.

Henry Bratcher 4413
\$3.75

Sci - Chem

Apr 59

84,313

Formation of a New Phase in 18-8 Steel Welds
Containing Columbium¹ by G. G. Malkin, N. Yu.
Pal'chuk.

RUSSIAN, paper, Avtomat Svarin, Vol XI, No 6,
1958, pp 88-91.

Henry Bratcher 4462
\$3.90

Sci - Chem

Apr 59

84,314

Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat Svarka, No 7, Kiev, 1958,
publ by the Publishing House of the Academy of
Sciences of the Ukrainian SSR.

Engr Res Devel Lab
T-359

Sci - Engr

Dec 58

61-19109

Potap'evskiy, A. G.
METAL FUSION AND TRANSFER IN CO₂-SHIELDED
WELDING WITH A THIN WIRE (Plavleniye i Perenos
Metalla pri Svarke Tenkoy Provolokey v Sprede
Uglekislogo Gasa). Mar 61 [16]p. 8 refs. RTS 1778.
Order from LC or SLA ml\$2.40, ph\$3.30 61-19109

Trans. of Avtomaticheskaya Svarka (USSR) 1958, v. 11,
no. 7, p. 52-59.

The electrode fusion and metal transfer processes have
been examined for CO₂-shielded welding with type
Sv-10GS wire 0.5 to 1.2 mm in diameter, and also the
nature of energy dissipation in the arc. The influence
of welding condition parameters on metal fusion and
transfer have been investigated. (Author)

(Machinery--Manufacturing, TT, v. 5, no. 10)

1. Metals--Welding
2. Wires--Applications
- I. Potap'evskiy, A. G.
- II. RTS-1778
- III. Department of Scientific
and Industrial Research
(Or. Brit.)

LSH (25.00)

160939

Office of Technical Services

Universal Electrolyte for the Polishing of
Stainless and Heat-Resisting Steels, Low-
Carbon Steels, and Titanium Alloy VT-5,
by G. I. Parfessa, V. A. Sidlyurenko.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 7,
1958, pp 83, 84.

Henry Brutoher 4421.
\$2.25

Sci - Engr

Apr 59

84,311

Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat Svarka, No 8, 1958, publ by the
Publishing House of the Academy of Sciences of the
[REDACTED] Ukrainian SSR, Kiev.

Engr Res Devel Lab T-332

Sci - Engr

Dec 58

On the Electrical Circuits of Machines for
the Contact Welding of Thin Metal. UNCL
ID 2105497

RUSSIAN, per, Avtomat: Svarha, No 8, 1958.

USASIA 1035

Sci - Engr

Jun 59

88,400

Adopt Advanced Welding Methods More Widely in
Industry, 3 pp. USCL

RUSSIAN, par, Avton Svarka, No 11, 1958, pp 1-3.

Lending Library Unit
Translations Bulletin
Feb 1959

USSR
Econ
Apr 59

85, 127

Vacuum Welding by Diffusion, by N. F. Kazakov,
RUSSIAN, per, Avtom Svarka, No 8, 1958, pp 6-18.

*Henry Erutcher

Sci - Engr

Feb 59

On the Electrical Circuits of Machines for the Contact
Welding of Thin Metal, by M. F. Zaytsev, 9 p.

RUSSIAN, Izv. Akademiicheskoy Svyazi, 1958, Vol. XX,
No 8, pp 81-20.

SLA 59-22269

Sci
Mar 60
Vol 2, No 12

US ASIA. Trans. Log #1035
109, 198

Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat ~~SVK~~ Svarka, No 9, 1958, publ
by the Publishing House of the Academy of Sciences of
the Ukrainian SSR, Kiev.

Engr Res Devel Lab T-385

Sci - Engr

Dec 58

Research into the Oxygen of Low-Alloy Steel for
Welded Structures, by T. N. Slutskaya, V. G.
Gordonov. U.S.S.R.

RUSSIAN, per, Avtom Svarka, No 9, 1958, pp 3-12.

17.19.4307
British Iron and
Steel Ind 1166

Sci - Min/Eng; Engr
Apr 59

83,868

THE TENSILE STRENGTH OF THE METAL OF THE HEAT-
AFFECTED ZONE OF WELDED JOINTS IN HIGH-STRENGTH
STEEL, BY B. A. RABOTNOV. UNCL

RUSSIAN, part, Armen Svarna, No 9, 1970,
pp 20-23.

British Iron and
Steel Ind 1165
NCL M. 4205

Sci - Min/Sec
Apr 59

83,866

Lashko, N. F. and Lashko-Avakyan, S. V.
 THE ROLE OF THE CARBIDE PHASES AND OF PR-
 MARY FERRITE IN THE FORMATION OF HIGH-
 TEMPERATURE CRACKING IN THE WELDING OF
 AUSTENITIC STEELS [Oron Karbidnykh Faz i
 Pervichnogo Ferrita v Obrazovanii Kristallizatsionnykh
 Treshchin pri Svarke Austenitnykh Stalei]. Jan 60.
 Order from MT MT Trans-22

Trans. of Avtomaticheskaya Svarka (USSR) 1958 [v. 11]
 no. 9, p. [98]-110.
 Another translation is available from LC or SLA
 ml\$2.40, pp\$3.30 as 60-13629, BWRA TR-15/59,
 Mar 59 [18]p.

DESCRIPTORS: *Steel, *Welding, *Welds.

For abstract see Technical Translations 4: 164, 1960.

(Machinery--Manufacturing, TT, v. 6, no. 5)

61-22731

- I. Lashko, N. F.
- II. Lashko-Avakyan, S. V.
- III. MT Trans-22
- IV. Tollemache, M. de O.
 (Or. Brit.)

DSIR 224 11.591

180541

Office of Technical Services

Table of Contents: Automatic Welding.

RUSSIAN, per, Avtomat Svarka, No 10, 1958, publ by the
Publishing House of the Academy of Sciences of the
Ukrainian SSR, Kiev.

Engr Res Devel.
Lab T-397

Sci - Engr

Dec 58

Electro-Slag Hot-Topping of Ingots and Shaped
Castings With the Aid of a Non-Consumable
Electrode, by G. S. Tyagun-Belous, D. A.
Dudko.

RUSSIAN, per, Avtom Svarka, No 10, 1958,
pp 36-43.

British Steel Castings
Research Association
East Bank Road
Sheffield, 2

128,437

Structure of Electro-Slag Welds in Modular Cast
Iron, by L. A. Poznyak, et al.

RUSSIAN, per: Avtomat Svarka, Vol XI, No 10,
1958, pp 67-74.

HB 4636

Sci - Engr

Jan 60

105,430

The Use of Ultrasonics in Seam and Spot Welding,
by E. A. Olshanskij, et al. USSR

RUSSIAN, per, Avtomat Svarka, No 10, 1958,
pp 75-80.

HB 5289
DSIR LUN FNS 1427

(15s.02.)

Mar - Phys

Mar 60

0151 154

111,091

Spectrographic Analysis of High-Silicon
Aluminum Alloy and Welds, by A. S. Dem'yanchuk,
O. P. Ryabushko. UNCL

RUSSIAN, per, Avtom Svarka, No 10, 1958,
pp 86-89.

British Iron and
Steel Ind 1347
(LI 15b.O3.)

Sci - Eng
Sep 59

NE 96, 028

62-33736

Gupalo, Yu. D.
SOURCES D'ALIMENTATION POUR LA SOUDURE
ÉLECTRIQUE SOUS SCORIE [Power Supply for Elec-
tric Slag Welding] tr. by I. Melnyck. 27 Mar 62 [18]p.
5 refs. CEA Trans. no. R 1523 (text in French).
Order from OTS or SLA \$1.60 62-33736

Trans. in French of Avtomaticheskaya Svarka (USSR)
1958, v. 11, no. 8, p. 19-26.

DESCRIPTORS: *Electroslag process, *Welding,
Electrical equipment, *Power supplies, Slags.

Nous avons étudié l'influence de la pente des caracté-
ristiques extérieures des sources d'alimentation sur
la stabilité du processus et sur la stabilité de la fu-
sion des bords des pièces soudées. Nous montrons les
avantages des transformateurs de soudure à caracté-
ristiques extérieures raides. (Author)
(Metallurgy TT, v. 9, no. 9)

- I. Gupalo, Yu. D.
- II. CEA-tr-R1523
- III. Commissariat à l'Énergie
Atomique (France)

Office of Technical Services

Makara, A. M., Lakomakly, V. I., and
Zhovnitakiy, I. P.
INVESTIGATION INTO THE DISTRIBUTION OF HY-
DROGEN IN WELDED JOINTS OF MEDIUM-ALLOY
STEELS WITH AUSTENITIC AND FERRITIC WELDS
(Issledovaniye Rasprebeleniya Vodoroda v Svarnykh
Soyedineniyakh Srednelegirovannykh Staley s
Austenitnym i Ferritnym Shvami). Apr 61 [25]p.
10 refs. RTS-1810.
Order from OTS or SLA \$2.60

61-19695

Trans. of Avtomaticheskaya Svarka (USSR) 1958 [v. 11]
no. 11, p. 16-31.

DESCRIPTORS: *Welds, *Welded joints, *Steel,
*Hydrogen, Tests.

Experiments and by calculation showed that in welded
joints of the medium-alloy steels there is a jump-like
increase in the hydrogen content near the fusion line on
the side of the heat-affected zone, while in the case of
(Machinery--Manufacturing, TT, v. 6, no. 1) (over)

61-19695

I. Makara, A. M.
II. Lakomakly, V. I.
III. Zhovnitakiy, I. P.
IV. RTS-1810
V. Department of Scientific
and Industrial Research
(Gt. Brit.)

16181.

Office of Technical Services

Two Controlled Atmosphere Chambers for Welding
Refractory Metals, by N. A. Ol'shanskiy. URCL

RUSSIAN, ~~PT~~, Avtom Svarke, No 11, 1958, pp 32-36.

DSIR LLU RTS 1422

{KMU

(12s. 6d.)

113,022

Sci - Engr
Apr 60

Demulphurizing Capacity of Fluxes in Electro-
Slag Welding, by Yu. M. Zaitsev, UNCL
G. S. Tyegun-Belova. UNCL

RUSSIAN, per, Avtom Svarka, No 11, 1958,
pp 57-60.

HB 4685

Sci - Eng
Mar 60

109,418

Brittle Failure of Low-Carbon Steel Welds, by
B. S. Krasnikin.

RUSSIAN, per, Avtomat Svarka, Vol XI, No 11,
1958, pp 71-80.

HB 4786

Sci - Min/Met

Apr 60

114, 271

On the Question of the Reasons for the
Appearance of Gas Streams in a Welding
Arc, by G. B. Serdyuk. ONOL

RUSSIAN, per, Avton Svarka, No 11, 1958,
pp 81-84.

DSIR LIA/ RTS 1428

(10s. (Kl.))

Sci. - Electr
Apr 60

113,023

BD #628

(DC-3131).

A. N. Shashkov (On His 60th Birthday), 2 pp.

RUSSIAN, per, Avtomaticheskaya Svarka, No 11,
1958, pp 95, 96.

JPRS-L-2021-D

USSR

Bio

Sci - Misc

Feb 60

THE EFFECT OF SLAG COMPOSITION ON THE MELTING OF
AN ELECTRODE OF LARGE CROSS SECTION IN THE
ELECTROSLAG PROCESS, BY YU. V. LATASH, G S
TYAGUN-BELOUS, 15 PP.

~~RUSSIAN, PER, AVTOM SVARKA, NO 12 (69), 1958,~~
PP 7-27.

JPRS 21983

B151 5660

SCI-MAT & MET
DEC 63

242,960

Automatic Welding of a Cold-Resisting Steel
Under a Ceramic Flux, by K. K. Khrenov, et al.
URSS.

RUSSIAN, per, Avtom Svarka, Vol. XI, No 12,
1958, pp 50-56.

DSIRL LIA RIB 1425

(17th 6d.)

Sci - Eng

May 60

116,591

Influence of the Condition of the Electroslag
Process on the Melting Speed of Heavy-Gage
Electrodes, by D. A. Dudko, I. N. Rublevskiy,
et al, 9 pp.

RUSSIAN, per, Avtomat Svyurka, No 12,
Dec 1958, pp 57-62.
JPRS 24940

Sci - M/M
Jun 64

6
261,089

VOL. 12, 1959

AVTOMATICHESKAYA SVARKA
(Automatic Welding - monthly)
Translation begins with 1959, Vol. 12
Lag time: 4-5 months

Order from: The Welding Institute
Publications Department
Abington Hall, Abington
Cambridge, CB1 6AL

1971: £ 24.00/year U.K. (post. paid)
£ 89.00/year elsewhere
£ 3.00 single issues U.K.
£ 11.00 single issues elsewhere
Back issues: 25 % discount for any issues
prior to current

Russ
nd

Conference on Highly Productive Methods of
Welding in Chemical and Petroleum Machine
Building, by A. N. Saformikov and S. V. Yunger,
9 pp.
RUSSIAN, per, Avtomaticheskaya Svarka, No 12,
Dec 1964, pp. 84-87.
JPRS 30495

USSR
Sci-Engr
Jun 65

281,606

Automatic Telephone, by M. G. Karmazov. ~~UNCLASSIFIED~~

RUSSIAN, bk, Avtomaticheskaya Telefoniya, 1953,
pp 1-285.

*SCJA 1011

Scientific - Electronics

Approximate Investigation of Some Types of Strongly
Non-Linear Autonomous A Systems, by V.V. Kazakevich.

92 pp. *Wk*
RUSSIAN, ~~XXXXXXXXXX~~, Avtomaticheskoye
Upravleniye. 9695480

*FTD-TT-63-319

Sci-Math
Mar 63

(SF-17)

L. S. Pontryagin's Maximum Principle in Optimal
Automatic Control Systems With Linear Controlling
Function, by A. G. Butkovskiy, 11 pp.

RUSSIAN, in, Avtomaticheskoye Upravleniye, 1960,
pp 9-16.

JPRS 4617

Sci - Eng

153,658

Jun 61

Automatic Control of Metal-Cutting Machine Tools;
Automation Systems and Their Use (by V.A. Darun,
A.A. Rudinskiy.

RUSSIAN, bk, Avtomaticheskoye Upravleniye
Metalloobrabatovayushchikh Stankov; Sredstva Avtomatizatsii
1. Ikh Ispol'zovaniye, Chapters 9 & 13, 1959.
9662405.

ATIC NCL 669/III

Sci. - Ingr
Jun 6.

155, 443

Automatic Control, Collected Works, by Ya. Z.
Tsyapkln, Ye. N. Grigoryev, G. A. Astafyeva. UNCL

RUSSIAN, bk, Avtomaticheskoy Upravleniya Sbornik
Rabot Ak Nauk SSSR Inst Avtomatiki i Telemekh,
1960, 131 pp. Articles Beginning on pp 3, 9, 17, 63,
107, 111, 129, 201, 258, 267, 354.

*ATICMCL-1357/1

Sci - Engr, Electronics
27 Jul 61
26-7-501

(NY-3903/1).

The Basic Features of Engineering Cybernetics,
by V. V. Solodovnikov, 22 pp.

RUSSIAN, bk, Avtomaticheskoye Upravleniye i
Vychislitel'naya Tekhnika, No 1, 1958, pp 5-21.

JPRS-2001-N

Sci - Engr
Nov 59

101,566

(NY-4688).

Principles of Designing Controlling Mathematical
Machines on the Basis of General-Purpose High-Speed
Digital Computers, by V. A. Zimin, 31 pp.

RUSSIAN, bk, Avtomaticheskoye Upravleniye i
Vychislitel'naya Tekhnika, 1958, pp 29-45.

JPRS 5419

Sci - Electron
18 Oct 60

128,684

(NY-4688)

Contactless Magnetic Devices for Control Systems,
by L. I. Gutamakher, M. L. Gutamakher, M. L.
Avrukh, I. A. Vissnova, et al, 63 pp.

RUSSIAN, bk, Avtomaticheskoye Upravleniye i
Vychiskatel'naya Tekhnika, 1958, pp 113-145.

JPRS 5779

Sci - Engr

Oct 60

129,012

J-4936

(NY-2653).

Contactless Magnetic Devices for a System of
Control, by L. I. Gutenmakher, 110 pp.

M. L. AVRUKH, I. A. YISSONOVA,

RUSSIAN, bk, Avtomaticheskoye Upravleniye i
Vychislitel'naya Tekhnika, Moscow, 1958, pp. 136-145.

JPRS-L-871-M

Sci - Electronics, Automation

Jul 59

91,607